

## IN THE CLAIMS

1. (currently amended) A non-heat treated seamless steel tube having a composition consisting of, by weight,  
C : 0.10 to 0.17%,  
Si : 0.05 to 1.0%,  
Mn : [[0.5]] 1.5 to 2.5%,  
P : not more than 0.03%,  
S : not more than 0.05%,  
Cr : [[0.5]] 0.9 to 2.0%,  
V : 0.03 to 0.3%,  
Al : 0.003 to 0.10%,  
N : 0.001 to 0.02%, and  
O : not more than 0.003%,  
wherein the balance comprises Fe and impurities, and  
the carbon equivalent Ceq. (%) defined by the following equation is 0.60 to 0.85.  
$$\text{Ceq.} = \text{C} + \text{Mn} / 6 + (\text{Cr} + \text{Mo} + \text{V}) / 5 + (\text{Ni} + \text{Cu}) / 15$$
, the non-heat treated seamless steel tube having a bainite-based structure.
2. (original) The non-heat treated seamless steel tube according to claim 1, wherein a part of Fe is replaced with at least one kind selected from,  
Ni : 0.05 to 1.5%,  
Mo : 0.05 to 1.5%,  
Cu : 0.05 to 1.5%, and  
B : 0.0003 to 0.01%.
3. (original) The non-heat treated seamless steel tube according to claim 1, wherein a part of Fe is replaced with one or 2 kinds selected from,  
Ti : 0.005 to 0.2%, and  
Nb : 0.005 to 0.2%.

4. (original) The non-heat treated seamless steel tube according to claim 1, wherein a part of Fe is replaced with at least one kind selected from,

Ni : 0.05 to 1.5%,

Mo : 0.05 to 1.5%,

Cu : 0.05 to 1.5%, and

B : 0.0003 to 0.01%, and

replaced with one or 2 kinds selected from,

Ti : 0.005 to 0.2%, and

Nb : 0.005 to 0.2%.